MEA 498/598: National Weather Service Student Internship Extended Forecast Worksheet

Name	 Date	
Shift	 Mentor	

Extended Forecast:

The Extended Forecast generally involves Days 4 through 7 of the forecast. In this period, current observational trends become less important and the following become more important:

- Climatology
- Pattern Recognition
- Model Diagnostics

When working on the extended forecast, we often use climatology as a baseline. The difficult part is determining whether or not we should deviate from climatology - and the justification for that deviation. Pattern recognition, experience, and model diagnostics are all critical factors to consider when creating the extended forecast. The Weather Prediction Center (WPC) issues products that offer guidance for the extended forecast.

PMDEPD - Extended Forecast Discussion

http://www.wpc.ncep.noaa.gov/discussions/hpcdiscussions.php?disc=pmdepd

PMDHMD – Model Diagnostic Discussion http://www.wpc.ncep.noaa.gov/discussions/pmdhmd.html

- 1) Have your mentor:
 - Discuss his/her confidence in the extended forecast and what tools/data were used to arrive at that conclusion.
 - Discuss the NWS Superblend and its limitations in the extended range forecast.
- 2) Answer the following questions in the space provided below:
 - Climatologically, what would be expected in the Day 4-7 portion of the forecast?
 - Are there reasons to deviate from climatology? If so, what are they?
- 3) In the space provided below, identify the primary forecast problem(s) in the extended forecast period.
- 4) How can ensemble be helpful in the extended range?